

Title (en)

CIRCUIT, COMMUNICATION DEVICE AND METHOD FOR PROTECTING POWER AMPLIFIER

Title (de)

SCHALTKREIS, KOMMUNIKATIONSVORRICHTUNG UND VERFAHREN ZUM SCHÜTZEN EINES LEISTUNGSVERSTÄRKERS

Title (fr)

CIRCUIT, DISPOSITIF DE COMMUNICATION ET PROCÉDÉ POUR LA PROTECTION D'AMPLIFICATEUR DE PUISSANCE

Publication

EP 2637301 A4 20131030 (EN)

Application

EP 11844132 A 20110905

Priority

- CN 201010571016 A 20101202
- CN 2011079325 W 20110905

Abstract (en)

[origin: EP2637301A1] Embodiments of the present invention disclose a power amplifier protection circuit, communication device, and method, to protect a power amplifier when an abnormal signal, such as a burr or a pulse, occurs in a circuit. The method according to an embodiment of the present invention comprises: detecting and comparing, by an input detection circuit, an abnormal signal in an input signal, outputting a protection control signal, and after processing performed by a delay circuit, controlling a power amplifier to be in an off state in a pulse width of the delayed protection control signal, so that the abnormal signal passes through the power amplifier when the power amplifier is in the off state, thereby preventing the power amplifier from burning, and achieving the effect of protecting the power amplifier.

IPC 8 full level

H03F 1/52 (2006.01); **H03F 3/19** (2006.01); **H03F 3/24** (2006.01); **H03F 3/72** (2006.01)

CPC (source: EP US)

H02H 9/043 (2013.01 - US); **H03F 1/52** (2013.01 - EP US); **H03F 3/19** (2013.01 - EP US); **H03F 3/245** (2013.01 - EP US); **H03F 3/72** (2013.01 - EP US); **H03F 2200/426** (2013.01 - EP US); **H03F 2200/444** (2013.01 - EP US); **H03F 2200/78** (2013.01 - EP US)

Citation (search report)

- [X] EP 0982852 A2 20000301 - HARRIS CORP [US]
- [A] US 3931547 A 19760106 - GLOGOLJA MIROSLAV
- See references of WO 2012071918A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

EP 2637301 A1 20130911; **EP 2637301 A4 20131030**; **EP 2637301 B1 20191106**; CN 102055412 A 20110511; CN 102055412 B 20140416; US 2013257543 A1 20131003; US 8674769 B2 20140318; WO 2012071918 A1 20120607

DOCDB simple family (application)

EP 11844132 A 20110905; CN 201010571016 A 20101202; CN 2011079325 W 20110905; US 201313904822 A 20130529